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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,227	12/06/2001	Lisbeth Hamer	2131US	7875
22881 7590 02/07/2003 PARADIGM GENETICS, INC			EXAMINER	
108 ALEXANI P O BOX 1452	DER DRIVE		SRIVASTAVA	, KAILASH C
RTP, NC 27709-4528			ART UNIT	PAPER NUMBER
			1651	6
		DATE MAILED: 02/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n No.	Applicant(s)				
		HAMER ET AL.				
Office Action Summary	10/010,227	Art Unit				
Office Action Summary	Examin r	1651				
The MAILING DATE of this communication app	Dr. Kailash C. Srivastava					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON!	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
20,	nis action is non-tinal.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-49</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.	•					
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	/ 					
8) Claim(s) <u>1-49</u> are subject to restriction and/or	election requirement.					
Application Papers	~					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
Asknowledgment is made of a claim for foreign	nn nriority under 35 U.S.C. § 119	(a)-(d) or (f).				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:	nts have been received.					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
Certified copies of the priority documents Copies of the certified copies of the priority application from the International E See the attached detailed Office action for a list	ority documents have been rece Bureau (PCT Rule 17.2(a)).	ived in this National Stage				
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C. § 11	9(e) (to a provisional application).				
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	rovisional application has been r	received.				
Attachment(s)	p					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				





DETAILED ACTION

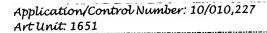
Claims 1-49 are pending.

Art Unit: 1651

Election/Restriction

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Group I Claims 1-4 and 6 drawn to a binding assay to determine binding between a test compound and 3-Isopropylmalate dehydrogenase polypeptide to ascertain inhibition of the said polypeptide by the said test compound, classified under Class 435, Subclass 7.1, for example.
 - Group II Claims 5, 7, 12, 17 and 40-43 drawn to a fungal growth assay when a fungus is brought into contact with a candidate antibiotic compound to evaluate if the candidate compound has antifungal activity, classified under Class 435, Subclass 29 for example.
 - Group III Claims 8-11, 13-16 and 18-19 drawn to fungal 3-Isopropylmalate dehydrogenase activity assay, classified under Class 435, Subclass 4 for example.
 - Group IV Claims 20-25 drawn to a method to assay expression of fungal 3-Isopropylmalate dehydrogenase in a cell or tissue, classified under Class 435, Subclass 7.4, for example.
 - Group V Claims 26-39 drawn to a method to assay comparative growth of fungus and expression of fungal and non-fungal 3-Isopropylmalate dehydrogenase genes in two different fungi, classified under Class 435, Subclass 32 for example.
 - Group VI Claims 44-47 drawn to an isolated nucleotide encoding a polypeptide, classified under Class 536, Subclass 23.2 for example.
 - Group VII Claims 48-49 drawn to a polypeptide, classified under Class 435, Subclass 232 for example.
 - The inventions of Groups I-VII are distinct, each from the other.







Inventions in each of the Groups I-VII are unrelated to each other because they are directed to inventions that are not connected in design, operation and/or effect. These inventions are independent since they are not disclosed as capable of use together. They have different modes of operation, they have different functions, and/or they have different effects. One would not have to practice the various inventions at the same time to practice just one invention alone (MPEP § 806.04, MPEP § 808.01). In the instant case, invention disclosed in claims encompassing invention in Group II is directed to a fungal growth assay in presence of a test compound that may have an antibiotic activity, whereas the invention of group IV encompasses claims to assay for expression of 3-Isopropylmalate dehydrogenase enzyme in a given cell or tissue. Similarly, Invention in Group III encompasses claims drawn to assaying the activity of fungal 3-Isopropylmalate dehydrogenase (also known as 3-isopropylmalate hydro-lyase, See enclosed excerpt from IUBMB Enzyme Nomenclature Classification), while invention of Group VII encompassing Claims 44-47 is drawn to a nucleotide encoding a particular polypeptide.

Inventions discussed above are independent and distinct, each from the other. They have acquired a separate status in the art as a separate subject for inventive effect and require independent searches. The search for each one of the above inventions is not coextensive particularly with regard to the literature search. Further, a reference that would anticipate the invention of one group would not necessarily anticipate or even make obvious another group. Finally the consideration for patentability is different in each case. Thus, it would be an undue burden to examine all of the above inventions in one application.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification (class/subclass), a requirement for independent search as explained above and their recognized diverse subject matter, restriction for examination purposes as indicated is proper.

- 4. Applicants are advised that a reply to this requirement must include an identification of an invention elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.
- 5. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b). Any





Application/Control Number: 10/010,227 Art Unit: 1651 Page 4

amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17($\rm I$).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Kailash C. Srivastava whose telephone number is (703) 605-1196. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 6:00 P.M (Eastern Daylight Saving, or Standard time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn, can be reached on (703) 308-4743. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

0196. Kailash C. Sri

Kailash C. Srivastava, Ph.D. Patent Examiner Art Unit 1651

February 4, 2003

Jon P. Weber, Ph.D. Primary Examiner